

AGAREV, O.L., inzh.; KAVTORINA, V.A., inzh.

Improving the static function of a hydroelectric-power station  
on a nonrock foundation.. Gidr. stroi. 31 no.7:44-46 J1 '61.  
(MIRA 14:7)

(Hydroelectric power stations)

KAYTOROV, V.M., inzhener.

Application of high-speed cutting in hydraulic machinery plants.  
Trudy VIGW no.13:178-186 '51. (MIRA 10:8)

1. Glavnyy tekhnolog Glavnogo upravleniya khimicheskogo mashino-  
stroyeniya.

( Metal cutting)

KAVTOROV, V.M., inzhener.

Study carefully and disseminate widely the experience of efficiency  
promoters and inventors. Izobr. v SSSR. 1 no.2:22-23 Ag '56.

(MIRA 10:3)

(Inventions)

KAVTOROV, V.M., inzhener.

~~Invented at the K. Marx' Leningrad Plant. Izobr. v SSSR 1 no.6:24~~  
D '56. (MLRA 10:4)

(Leningrad--Instruments)

KAYTOROV, V.M., inzhener.

High-duty cutter heads. Izobr. v SSSR 2 no.1:22 Ja '57. (MIRA 10:4)  
(Cutting tools)

KAYTOROVA, N.Ye.

New method of registering and evaluating the contracting capacity of the mimetic and chewing musculature. Stomatologiya 41 no.5:73-77 S-O '62. (MIRA 16:4)

1. Iz kafedry khirurgicheskoy stomatologii (zav. - dotsent P.V.Naumov) i kafedry fizicheskogo vospitaniya i vrachebnoy fizkul'tury (zav. P.P.Smironov) Kalininskogo meditsinskogo instituta.

(MASTICATION) (MUSCLES)  
(PHYSIOLOGICAL APPARATUS) (FACE)

KAYTEVA, A.I., kand.med.nauk

Tuberculosis of the stomach. Khirurgiia 35 no.12:98-99 D '59.  
(MIRA 13:6)

1. Iz kafedry fakul'tetskoy khirurgii (sav. - prof. V.F. Kolo-  
sovskaya) Sverdlovskogo meditsinskogo instituta.  
(STOMACH GASTROINTESTINAL case reports)

KAVTREVA, A.I., kand.med.nauk

Problem of the effect of iodine prophylaxis on the incidence of recurrence of endemic goiter in various districts of Sverdlovsk Province. Khirurgiia 37 no.5:82-84, My '61. (MIRA 14:5)

1. Is kafedry fakul'tetskoy khirurgii (zav. V.F. Kolosovskaya) Sverdlovskogo meditsinskogo instituta.  
(IODINE) (SVERDLOVSK PROVINCE--GOITER)

BARKAN, A.S.; KAVTSEVICH, L.P.

Effect of the additional component on the solubility in demixing solvents. Part 1: Effect of benzene on the solubility of potassium chloride in mixtures of n.butyl alcohol with water. Izv.-vys.ucheb.sav.;khim.i khim.tekh. 5 no.2:236-242 '62.

(MIRA 15:8)

1. Belorusskiy gosudarstvennyy universitet imeni Lenina, kafedra obshchey i neorganicheskoy khimii.

(Benzene) (Potassium chloride) (Solubility)

✓  
KAVTSEVICH, V.P., inzh.; SAL'NIKOV, V.R., inzh.

System of mining steeply pitching seams with the use of stoping  
machinery with remote control. Trudy VNIIGidrouglia no.2:13-18 '63.  
(MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy  
institut dobychi yglya gidravlicheskim sposobom.

NOVASH, V.I., kand.tekhn.nauk, dotsent; KAVTSEVICH, Ya.N., inzh.;  
KAKHANOVICH, V.S., inzh.; KRAS'KO, A.S., inzh.; CHERVINSKIY,  
L.L., inzh.

Conditions for the establishment of synchronous operation in  
sections of an electric power system in the presence of non-  
synchronous automatic reclosing. Izv. vys. ucheb. zav.; energ.  
5 no.2:5-11 F '62. (MIRA 15:3)

1. Belorusskiy politekhnicheskiy institut. Predstavlena kafedroy  
elektricheskikh stantsiy.  
(Electric power distribution)

NOVASH, V.I., kand.tekhn.nauk, dotsent; KAVTSEVICH, Ye.N., inzh.;  
RECHIN, Sh.Sh.

Study of the nonsynchronous modes of operation of an electric power system with nonsynchronous automatic reclosing of electric power transmission lines. Izv. vys. ucheb. zav.; energ. 6 no.10: 8-15 0 '63. (MIRA 16:12)

1. Belorusskiy politekhnicheskiy institut. Predstavlena kafedroy elektricheskikh stantsiy.

KAVTYAN, O.K.

OVCHINNIKOVA, Ye.N.; KAVTYAN, O.K.

Oxidation of the sulfurous anhydride on activated carbon by the  
liquid-contact method. Zhur.fiz.khim. 30 no.8:1735-1738 Ag '56.  
(MLRA 10:1)

1. Gosudarstvennyy universitet, Odessa.  
(Sulfur dioxide) (Oxidation)

S/167/60/000/004/003/003/XX  
A006/A001

AUTHOR: Kavulov, V. K.

TITLE: A Graphical-Analytical Method of Investigating the Stress-Strain of Beams Beyond Elasticity Limits During Plain Bending 26

PERIODICAL: <sup>70</sup> Izvestiya Akademii Nauk UzSSR, Seriya tekhnicheskikh nauk, 1960, No. 4, pp. 46-52

TEXT: The investigation of elastic-plastic transverse oscillations of beams is connected with the preliminary determination of the dependence between the bending moments  $M$  and the curvature of elastic line  $y''$ :  $M = M(y'')$ . A grapho-analytical method is proposed of plotting a  $(M, y'')$  graph which may be used for calculating metallic and reinforced concrete beams by taking into account plastic deformation. Stress-strain of metal beams within and beyond the elasticity limits during plain bending is determined as follows: First some assumptions are made as to the work of individual threads, as e. g., the hypothesis of plane sections confirmed by V. Turkin's experiments (Ref. 1), and it is assumed that the threads undergo plain extension or compression and that the deformation of threads does not depend on their position in the section width. ✓

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S/167/60/000/004/003/003/XX  
A006/A001

A Graphical-Analytical Method of Investigating the Stress-Strain of Beams  
Beyond Elasticity Limits During Plain Bending

These assumptions are sufficient to reveal the distribution of strains (graph of  $\epsilon$ ) and normal stresses (graph of  $\sigma$ ) across the section of the beam if (the strain of the extremal compressed thread) and  $x_0$  (the distance of the extremal compressed thread from the neutral axis) are known (Fig. 1). A graphical method is described of plotting graphs of  $\epsilon$  and  $\sigma$  when  $\epsilon_0$  and  $x_0$  are known and a graphical method is presented for calculating the equations (1.4) and (1.6).

$$\int_Q x \sigma dQ + \int_\omega x \sigma d\omega = M \quad (1.4)$$

where  $Q, \omega$  are the areas of the stretched and compressed cross sectional zones and  $M$  is the bending moment in the given section

$$\phi(x_0 y'') = M \quad (1.6)$$

where  $y$  is the deflection of the beam. The author shows how to plot graphs of  $\epsilon$  and  $\sigma$  when the location of the neutral axis is known and  $\epsilon_0$  is given; how to plot the dependences between  $x_0$  and  $\epsilon_0$  for metallic beams and how to plot

Card 2/3

KAVUN, N. D.; GURICH, N. A.; SINOGEYKIN, S. A.

Gums and Resins

Work methods of stakhanovite oleoresin melter. Der. i lesokhim. prom. 1 No. 9, 1952

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

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**CIA-RDP86-00513R000721220003-4"**

KAVUN, P.I.

Do well-coordinated steady work, Mast, ugl. 5 no.8:  
4-5 Ag '56.

(MLRA 9:11)

1. Mashinist glavnogo pul'ta upravleniya transportno-  
otval'nogo mosta Yurkovskogo razreza kombinata Ukrburugol'.  
(Coal mines and mining)

KAVUN, P.K.

KOZLOVSKIY, A.I., doktor sel'skokhozyaystvennykh nauk; KOVALOV, V.N.,  
kandidat sel'skokhozyaystvennykh nauk; NEMLIYENKO, V.K., nauchnyy  
sotrudnik; KAVUN, P.K., redaktor; PAVLOVA, M.M., tekhnicheskiy  
redaktor; BALLOD, A.I., tekhnicheskiy redaktor

[Corn in 1955] Kukurusa v 1955 godu. Moskva, Gos. izd-vo sel'khoz.  
lit-ry. no.5. [Siberian regions] Raiony Sibiri. 1956. 198 p.  
(Siberia--Corn (Maize)) (MIRA 10:2)

ALEKSASHIN, V.I.; TEREKHINA, A.I., redaktor; KAVUN, P.K., redaktor;  
PEVZNER, V.I., tekhnicheskii redaktor; ~~PAVLOVA, R.M.~~, tekhnicheskii  
redaktor

[Corn in 1955] Kukuруза v 1955 godu. Moskva, Gos. izd-vo selkhoz.  
lit-ry. No.4. [Districts of the Urals, North Kazakhstan, Siberia  
and the Far East] Raiony Urala, Severnogo Kazakhstana, Sibiri i  
Dal'nego Vostoka. 1956. 179 p. (MLRA 9:8)

1. Glavnyy agronom Upravleniya planirovaniya nauchnykh issledovaniy  
po sel'skomy khozyaystvy Ministerstva sel'skogo khozyaystva SSSR.  
(for Aleksashin)  
(Corn (Maize))

KAVUN, P.K.

RIKHTER, G.D., doktor geograficheskikh nauk, otvetstvennyy redaktor;  
D'YACHENKO, A.Ye., dandidat sel'skokhozyaystvennykh nauk, otvet-  
stvennyy redaktor; KAVUN, P.K., redaktor izdatel'stva; SOMOROV,  
B.A., tekhnicheskyy redaktor

[Erosion in agriculture and its control] Sel'skokhoziaistvennaya  
eroziya i bor'ba s nei. Moskva, 1956. 373 p. (MIRA 10:2)

1. Akademiya nauk SSSR. Institut geografii.  
(Erosion)

TSEDIK-TOMASHEVICH, Z.F., kandidat biologicheskikh nauk; SKVORTSOV, S.N.;  
KAVUN, P.K., redaktor; PEVZNER, V.I., tekhnicheskiiy redaktor

[Corn in 1955] Kukuza v 1955 godu. Moskva, Gos. izd-vo selkhoz.  
lit-ry. No.3. [Southern districts of the U.S.S.R.] Raiony iuga  
SSSR. 1956. 380 p. (MIRA 9:9)

1. Nachal'nik otdela rastenevodstva Glavnogo upravleniya sel'sko-  
khozaystvennoy nauki Ministerstva sel'skogo khozyaystva SSSR  
(for TSedik-Tomashevich) 2. Glavnyy agronom otdela rasteniyevod-  
stva (for Skvortsov)  
(Russia, Southern--Corn (Maize))

KAYUN, P.K.

HAZARENKO, K.S., redaktor; KRYLOV, G.A., redaktor; KONYAYEV, H.I., redaktor;  
TOMASHEVICH, Z.F., redaktor; BLINKOVA, M.V., redaktor; TRISVYATSKIY,  
L. A., redaktor; MARAKHTANOV, K.P., redaktor; KAYUN, P.K., redaktor;  
BARANOV, M.F., redaktor; SMELIANSKIY, V.A., redaktor; VIDONYAK, A.P.,  
tekhnicheskii redaktor; KUCHABSKIY, Yu.K., tekhnicheskii redaktor

[All-Union Conference on the Production of Hybrid Seed Corn, held in  
Dnepropetrovsk March 28-30, 1956] Vsesoiuznoe soveshchanie po proizvod-  
stvu gibridnykh semian kukurusy v Dnepropetrovske, 28-30 marta 1956  
goda. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 480 p. (MIRA 10:1)

1. Vsesoyuznoye soveshchaniye po proizvodstvu gibridnykh semyan  
kukurussy. Dnepropetrovsk, 1956.  
(Corn (Maize))

KAYUN, R.K., agronom; BABANOV, M.F., redaktor; SOKOLOVA, E.M., tekhnicheskii  
redaktor

[Winter wheat; a collection of articles] Ozimaya psenitsa; sbornik  
statei. Moskva, Gos.izd-vo sel'khoz. lit-ry, 1957. 575 p.  
(Biblioteka po polevodstvu i lugovodstvu, no.7) (MIRA 10:9)  
(Wheat)

KAVUN, P.K.

[Winter wheat; a collection of articles] Ozimaia pshenitsa;  
sbornik statei. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1958.  
(Wheat) (MIRA 12:3)

IVANOVA, Yelena Mikhaylovna; KAVUN, P.K., red.; POMICHEV, P.M., tekhn.red.

[Agricultural literature] Sel'skokhoziaistvennaya literatura.  
Moskva, Izd-vo TSentrsoiunza, 1958. 78 p. (Tovarovedenie knizhnykh  
tovarov, no.3) (MIRA 12:4)  
(Bibliography--Agriculture)

KAVUN, P.K., otv. za vypusk; FEDOTOVA, A.F., tekhn.red.

[Corn in the German Democratic Republic; proceedings of the  
Central Conference on Corn in Bernburg, March 7-8, 1958]  
Kukuruz v Germanskoi Demokraticheskoi Respublike; materialy  
TSentral'noi konferentsii po kukuruze v Bernburge 7-8 marta  
1958 goda. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1958. 277 p.  
[Translated from the German] (MIRA 12:5)  
(Germany, East--Corn (Maize))

SHEVCHENKO, Andrey Stepanovich, agronom; KAVUN, P.K., red.; PROKOF'YEVA,  
I.H., tekhn.red.

[On virgin lands of Siberia and Kazakhstan] Na tselinnykh  
zemliakh Sibiri i Kazakhstana. Moskva, Gos.izd-vo sel'khoz.lit-ry.  
1960. 46 p. (MIRA 14:2)

(Siberia--Agriculture)  
(Kazakhstan--Agriculture)

DROGALIN, Petr Vasil'yevich; KAVUN, P.K., red.; DEYEVA, V.M., tekhn.red.

[Planting corn prior to spring and winter crops] Kukuruza kak  
predshestvennik ozimyykh i iasovyykh kul'tur. Moskva, Gos.izd-vo  
sel'khoz.lit-ry, 1960. 58 p. (MIRA 14:2)  
(Corn (Maize))

NASYROV, Khamrakul, Geroy Sotsialisticheskogo Truda, deputat Verkhovnogo Soveta SSSR; KAVUN, P.K., red.; GUREVICH, M.M., tekhn.red.

[Cotton is our wealth; experience of the "Moskva" Collective Farm in Dzhizak District, Samarkand Province, Uzbekistan]  
Khlopok - nasha bogatstvo; iz opyta raboty kolxosa "Moskva" Dzhizakskogo raiona Samarkandskoi oblasti Uzbekskoi SSR.  
Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 63 p.

(MIRA 14:2)

1. Predsedatel' kolxosa "Moskva" (for Nasyrov).  
(Dzhizak District--Cotton growing)

BLINKOVA, M.V., kand.sel'skokhoz.nauk; KAYUN, P.K., red.; GUREVICH, M.M.,  
tekhn.red.

[Corn; a collection of articles on plant breeding, cultivation  
practices, and mechanization] Kukuruza; sbornik statei po  
selektzii, agrotekhnike, mekhanizatsii. Soast. M.V.Blinkova.  
Moskva, Gos.isd-vo sel'khoz.lit-ry, 1960. 396 p. (MIRA 13:5)  
(Corn (Maize))

SHEVCHENKO, A.S.; KAVUN, P.K., red.; RUBTSOV, M.K., red.; PROKOF'YEVA, L.N.,  
tekhn. red.

[Corn; make way for extensive exchange of experience] Kukuruz; dlia  
obmena opytom dveri shiroko otkryty. Izd.2., dop. Moskva, Izd-vo  
sel'khoz. lit-ry, zhurnalov i plakatov, 1961. 413 p. (MIRA 14:10)  
(Corn (Maize))

VINOGRADOV, V.I., kand. sel'khoz. nauk, otv. red.; NEMCHINOV, V.S.,  
akademik, red.; ZUBKOV, A.I., kand. ekon. nauk, red.;  
LETUNOV, P.A., doktor sel'khoz. nauk, red.; KAVUN, P.K.,  
red. izd-va; KASHINA, P.S., tekhn. red.; ASTAF'YEVA, G.A.,  
tekhn. red.

[Natural regionalisation of the central part of Krasnoyarsk  
Territory and some problems of farming near cities] Prirodnoe  
raionirovanie tsentral'noi chasti Krasnoyarskogo kraia i ne-  
kotorye voprosy prigorodnogo khoziaistva. Moskva, Izd-vo  
Akad. nauk SSSR, 1962. 214 p. (MIRA 15:11)

1. Krasnoyarskaya kompleksnaia ekspeditsiya.  
(Krasnoyarsk Territory--Physical geography)  
(Krasnoyarsk Territory--Agriculture)

SHLYKOV, Grigoriy Nikolayevich; KAVUN, P.K., red.; GUREVICH, M.M.,  
tekhn. red.; BALLOD, A.I., tekhn. red.

[Introduction and acclimatization of plants; introduction to  
the cultivation and reclamation in new regions] Introduktsiia  
i akklimatizatsiia rastenii; vvedenie v kul'turu i osvoenie  
v novykh raionakh. Moskva, Sel'khozizdat, 1963. 487 p.

(MIRA 16:9)

(Plant introduction)

ACC NR: AR6026775

(A)

SOURCE CODE: UR/0081/66/000/003/0094/0095

AUTHOR: Tarasova, Z. N.; Sanatorskaya, L. G.; Fedorova, T. V.; Eyttinger, I. I.;  
Kavun, S. M.; Dogadkin, B. A.

TITLE: Effect of the structure of vulcanizing network and rubber compositions on the  
effectiveness of antifatigue agents

SOURCE: Ref. zh. Khimiya, Part II, Abs. 88673

REF SOURCE: Sb. Sintez i issled. effektivn. stabilizatorov dlya polimern. materialov.  
Voronezh, 1964, 138-144

TOPIC TAGS: chemical stabilizer, thermomechanical property, synthetic rubber

ABSTRACT: p-Phenylenediamines, thioamines, biphenols, thiophenols, phosphites and  
thiophosphites were studied as inhibitors (IN) of thermomechanical and thermal-oxida-  
tive degradation. The purity of the polymer has a strong influence on the stabilizing  
effect of IN. Additional introduction of IN into cured rubbers from raw rubbers  
treated with stabilizers causes a marked increase in stability only when they form a  
mutually reinforcing system with the stabilizers of the raw rubber. The composition  
and nature of the vulcanizing network substantially affect the stability of the cured  
rubbers and the manifestation of the action of IN. According to chemical relaxation  
data, the relative effectiveness of the action of IN increases with rising content of  
the accelerators in the mixtures. Increasing the stability of sulfur-free cured rub-

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L 4571C-66

ACC NR: AR6026775

bors by using IN is difficult, and can be accomplished only by using certain categories of stabilizers. The introduction of carbon blacks into polyisoprene mixtures causes the thermomechanical and thermal-oxidative stability to decrease, and in the case of polybutadiene mixtures does not decrease the stability of the vulcanizates. M. Otopkova. [Translation of abstract]

SUB CODE: 11

Card 2/2 ULR

KHODZHAYEVA, I.V.; KAVUN, S.M.

Improvement of radiochromatographic separation of mixtures of  
sulfur and sulfur-containing compounds. Radi. zhur. 27 no.1:  
135-137 Ja-F '65. (MIRA 18:3)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni  
Lomonosova.

L 3379-66 EWT(m)/EPF(c)/EWP(j) RM

ACCESSION NR: AP5022090

UR/0138/65/000/008/0009/0012 50

44 678.044:536.45.096 47

AUTHOR: Eytingon, I. I.; Krasukhina, M. M.; Kavun, S. M.; Strel'nikova, N. P.; Butyugin, V. K. 8

TITLE: Thermal conversion of an N-cyclohexylbenzothiazole-2-sulfenamide vulcanization accelerator 5

SOURCE: Kauchuk i rezina, no. 8, 1965, 9-12

TOPIC TAGS: rubber chemical, organic substituted amide, organic sulfur compound, EPR spectrum, thermochemistry, free radical, vulcanization, reaction mechanism, heat resistance

ABSTRACT: The effect of rubber mixing and vulcanization temperatures on the conversion of sulfenamide Ts [Abstractor's note: Compound corresponds to "Santocure. 17"] and the effect of additives on the thermal stability of this vulcanization accelerator were studied. Heating of the sulfenamide samples at 105-110C for 2 and 6 hours did not produce significant change in the melting of the material except to lower its melting temperature slightly. Thermal decomposition of the sulfenamide at 140 -145 C is preceded by an induction period whose length depends

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L 3379-66

ACCESSION NR: AP5022090

3  
on the impurities present. Decomposition is accompanied by spontaneous temperature increase and evolution of hydrogen sulfide and amine. 2-Mercaptobenzothiazole, its cyclohexylamine salt, and 2,2'-dibenzothiazyl disulfide were separated and identified among the resinous decomposition products. The effects of adding these three compounds or sulfur to mixes containing the sulfenamide were studied. Sulfur had the greatest effect on the thermal stability of the accelerator at 140-145 C, and the addition of 1% sulfur on weight of the sulfenamide reduced the induction period from 150 to 10 minutes. Examination of EPR spectra established that the thermal decomposition of this sulfenamide is a radical chain process. The presence of benzothiazolesulfide radicals was indicated. Orig. art. has: 3 figures and 4 equations

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promyshlennosti  
(Scientific Research Institute for the Tire Industry)

SUBMITTED: 00

ENCL: 00

SUB CODE:

NR REF SOV: 001

OTHER: 002

Cord 2/2 *md*

L 63797-65 EWT(m)/EPF(c)/ENP(j)  
ACCESSION NR: AP6018793

RM  
UR/0138/65/000/007/0006/0010  
678.063:541.68

AUTHOR: Tarasova, Z. N.; Senatorskaya, L. G.; Fedorova, T. V.; Eytinson, L. L.;  
Kirpichnikov, P. A.; Kavun, S. P.; Dogadkin, B. A.

TITLE: Effect of the structure of the vulcanizing network on the fatigue of rubber and study of methods of their stabilization

SOURCE: Kauchuk i rezina, no. 7, 1965, 5-10

TOPIC TAGS: stabilizer, antifatigue agent, antioxidant, vulcanizate fatigue, thermooxidation, zinc organic compound, synthetic rubber

ABSTRACT: The article reports on a study of the effect of zinc diisopropyl dithiophosphate, zinc diisopropyl dithiocarbamate and their combinations with derivatives of phenols and paraphenylenediamines on the stabilization of vulcanizates prepared from NK, SKI-3, SKD, and SKS-30 ARKM rubbers in the course of thermal and thermooxidative treatment in static tension and under repeated deformation. It was found that compounds containing branched alkyl groups in the molecule, particularly the diisopropyl group, have the greatest stabilizing effect against the thermomechanical and thermooxidative processes associated with the fatigue of vulcanizates. Zinc diisopropyl dithiophosphate is a weak vulcani-

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ACCESSION NR: AP5018793

zation accelerator and produces vulcanizates with a lesser sulfide character of the cross links. It does not affect the induction period of the oxidation of rubber and vulcanizates by molecular oxygen, but speeds up the decomposition of cumene hydroperoxide in rubber solutions as a result of the oxidation of sulfur to the corresponding sulfoxides. In contrast to the antifatigue agents and antioxidants commonly used, which do not stabilize the processes of thermal degradation, zinc diisopropyl dithiophosphate has an inhibiting influence on the thermomechanical breakdown of the vulcanizing network. The use of oxidation inhibitors in conjunction with substances stabilizing the thermal cleavage of bonds is an effective means of combating the fatigue of rubbers containing polysulfide bonds at high temperatures. Orig. art. has: 5 figures and 4 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promyshlennosti (Scientific Research Institute of the Tire Industry)

SUBMITTED: 00

ENCL: 00

SUB CODE: MT, GC

NO REF SOV: 007

OTHER: 004

Card 2/2

SAPOZHNIKOV, D.G.; KAVUN, V.I.; KALININ, V.V.; ROZHKO, M.N.

Characteristics of the distribution of iron and manganese in the  
Karadzhal deposit. Geol.rud.mestorozh. no.4:19-36 JI-Ag '61.  
(MIRA 14:10)

1. Institut geologii rudnykh mestorozhdenii, petrografii,  
mineralologii i geokhimii AN SSSR, Moskva.  
(Atasu region—Iron ores)  
(Atasu region—Manganese ores)

BOLDYREV, G.P.; VOGMAN, D.A.; NOVOKHATSKIY, I.P.; VERK, D.L.; DYUGAYEV, I.V.; KAVUN, V.M.; KURENKO, A.A.; UZBEKOV, M.R.; ARSEN'YEV, S.Ya.; YEGORKIN, A.N.; KORSAKOV, P.F.; KUZ'MIN, V.N.; STRELETS, B.A.; PATKOVSKIY, A.B.; BOLESLAVSKAYA, B.M.; INDENBOM, D.B.; FINKEL'SHTEYN, A.S.; SHAPIRO, I.S.; LAPIN, L.Yu.. Prinimali uchastiye: NEVSKAYA, G.I.; FEDOSEYEV, V.A.; KASPILOVSKIY, Ya.B.; ZERNOVA, K.V.. BARDIN, I.P., akademik, otv.red.; SATPAYEV, K.I., akademik, nauchnyy red.; STRUMILIN, akademik, nauchnyy red.; ANTIPOV, M.I., nauchnyy red.; BELYANCHIKOV, K.P., nauchnyy red.; YEROFEYEV, B.N., nauchnyy red.; KALGANOV, M.I., nauchnyy red.; SAMARIN, A.M., nauchnyy red.; SLEDZYUK, P.Ye., nauchnyy red.; KHLBNIKOV, V.B., nauchnyy red.; STREYS, N.A., nauchnyy red.; BANKVITSER, A.L., red.izd-va; POLYAKOVA, T.V., tekhn.red.

[Iron ore deposits in central Kazakhstan and ways for their utilization] Zhelezorudnye mestorozhdeniya Tsentral'nogo Kazakhstana i puti ikh ispol'zovaniia. Otvetstvennyi red. I.P.Bardin. Moskva, 1960. 556 p. (MIRA 13:4)

1. Akademiya nauk SSSR. Mezhdudomstvennaya postoyannaya komissiya po zhelezu. 2. Gosudarstvennyy institut po proyektirovaniyu gornykh predpriyatiy zhelezorudnoy i margantsevoy promyshlennosti i promyshlennosti nemetallicheskiikh iskopyayemykh (Giproruda) (for Boldyrev, Vogman, Arsen'yev, Yegorkin, Korsakov, Kuz'min, Strelets, (Continued on next card)

BOLDYREV, G.P.--(continued). Card 2.

3. Institut geologicheskikh nauk AN Kazakhskoy SSR (for Novokhatakiy).
  4. Tsentral'no-Kazakhstanskoye geologicheskoye upravleniye Ministerstva geologii i okhrany nedr SSSR (for Verk, Dyugayev, Kavun, Kurenko, Uzbekov).
  5. Nauchno-issledovatel'skiy institut mekhanicheskoy obrabotki poleznykh iskopayemykh (Mikhanobr) (for Patkovskiy).
  6. Gosudarstvennyy institut proyektirovaniya metallurg.zavodov (Gipromet) (for Boleslavskaya, Indenbom, Finkel'shteyn, Nevskaya, Fedoseyev, Karpilovskiy).
  7. Mezhdunarodnaya postoyannaya komissiya po zhelezu AN SSSR (for Shapiro, Zernova, Kalganov).
  8. Gosplan SSSR (for Lapin).
- (Kazakhstan--Iron ores)

KAVUN, Vasiliy Mikhaylovich; KHOMENKO, B.V., red.

[Twenty-six centners of buckwheat per hectare] 26 tsent-  
neriv hrechky z hektara. Vinnytsia, Vinnyts'ke oblasne  
knyzhkovo-gazete vyd-vo, 1961. 21 p. (MIRA 15:7)

1. Predsedatel' kolkhoza im. Stalina Bershadского rayona  
(for Kavun).

(Ukraine---Buckwheat)

KAVUN, Vasilii Mikhaylovich; BLAZHEVSKIY, Vasilii Karpovich, kand. sel'-  
khov. nauk; ANTONOVA, M.M., red.; PROKOF'YEVA, L.N., tekhn. red.

[Our experience in growing buckwheat] Nash opyt vyrashchivaniia gre-  
chikh. Moskva, Izd-vo sel'khoz. lit-ry, zhurnalov i plakatov, 1961.  
31 p. (MIRA 14:11)

1. Predsedatel' kolkhoza imeni Stalina Bershadskogo rayona (for  
Kavun).

(Buckwheat)

KAVUN, Vasilii Mikhaylovich; ZAPIVAKHIN, A.I., red.; GUREVICH, M.M., tekhn.  
red.

[Bibber payments for better work] Bol'shaia oplata za luchshii  
trud. Moskva, Izd-vo sel'khoz. lit-ry, zhurnalvo i plakatov, 1961.  
46 p. (MIRA 14:9)

1. Predsedatel' kolkhoza im. Stalina Bershadskogo rayona Vinnitskoy  
oblasti (for Kavun).  
(Collective farms—Income distribution)

KAVUN, Vasilii Mikhaylovich; REBRIK, Ya.P. [Rebryk, I.A.P.], red.;  
GULENKO, O.I. [Hulenko, O.I.], tekhn. red.

[Grow peas; it pays] Vyreshchuite horokh - tse vyhidno. Kyiv,  
Derzh. vyd-vo sil's'kohospodars'koi lit-ry URSR, 1961. 57 p.  
(MIRA 15:3)

1. Predsedatel' kolkhosa imeni XXII s'ezda Kommunisticheskoy  
Partiy Sovetskogo Soyuza Bershadskogo rayona, Vinnitskoy oblasti  
(for Kavun).

(Peas)

KAVUN, Vasilii Mikhaylovich. Prinimal uchastiye BUTCHENKO, F.P.  
CHERNOV, M.P., red.; NEMCHENKO, I.Yu., tekhn.red.

[Great stride of the seven-year plan of a collective farm]  
Shyrokyi krok semyrichky kolhospu. Kyiv, Derzh.vyd-vo  
sil's'kohospodars'koi lit-ry, 1961. 100 p.

(MIRA 15:2)

1. Predsedatelya kolkhcza imeni Stalina, Bershadskogo rayona,  
Vinnitskoy oblasti (for Kavun).  
(Ukraine--Collective farms)

KAVUN, Vasilii Mikhaylovich, Geroy Sotsialisticheskogo Truda;  
BORMISTROV, G.N., red.; PERSON, M.N., tekhn. red.; TOKER,  
A.M., tekhn. red.

[Cultivation practices in the growing and harvesting of peas]  
Agrotekhnika vozdeleyvaniia i uborka gorokha. Moskva, Proftekh-  
izdat, 1962. 49 p. (MIRA 16:5)

1. Predsedatel' kolkhoza im. XXII s"yezda Kommunisticheskoy  
partii Sovetskogo Soyuza Bershadskogo rayona Vinnitskoy obla-  
sti (for Kavun).

(Peas)

KAVUN, V.M., agronom, Geroy Sotsialisticheskogo Truda

That the soil may yield generously. Nauka i zhyttia 11  
no.3:41-42 Mr '62. (MIRA 15:8)

1. Predsedatel' kolkhoza imeni XXII s"yezda Kommunisticheskoy  
partii Sovetskogo Soyuzu Bershadskogo rayona Vinnitskoy oblasti.  
(Field crops)

KAVUN, V. M., Geroy Sotsialisticheskogo Truda; ZADNEPRYANETS, G. V.

Peas as grain and feed. Zemledelie 24 no.12:39-41 D '62.  
(MIRA 16:1)

1. Predsedatel' kolchoza imeni XXII s"yezda Kommunisticheskoy partii Sovetskogo Soyusa, Bershadskogo rayona, Vinnitskoy oblasti (for Kavun). 2. Glavnyy agronom kolchoza imeni XXII s"yezda Kommunisticheskoy partii Sovetskogo Soyusa, Bershadskogo rayona, Vinnitskoy oblasti (for Zadnepryanets).

(Peas)

DOROSH, Ivan Iosifovich; PITUL'KO, Vitaliy Yemel'novich [Pytul'ko, V.O.]; SEREDENKO, Boris Nikolayevich [Seredenko, B.M.]; KAVUN, V.M., Geroy Sotsialisticheskogo Truda, red.; TOGOBITSKAYA, N.V. [Tohobits'ka, N.V.], red.; GULENKO, O.I. [Hulenko, O.I.], tekhn. red.

[Use of machinery on a collective farm] Vykorystannia tekhniky v kolhospi. Kyiv, Derzh.vyd-vo Sil's'kohospodars'koi lit-ry URSR, 1963. 139 p. (MIRA 17:3)

KAVUN, Vasilii Mikhaylovich. Prinimali uchastiye: BABSKIY, I.I.;  
BOROVSKIY, V.A.; VITKOVSKIY, M.P.; ZIMOVETS, V.N.;  
SEREDENKO, B.N.; PITUL'KO, V.Ye.; CHEPURNOV, I.A.;  
BLAZHEVSKIY, V.K.; YAROPUD, V.N.; RYBAK, V.N.; KUZIK, G.I.;  
ZADNEPRYANETS, G.V.; IVANOV, A.N., red.; BELOVA, N.N.,  
tekhn. red.

[Efficient farm management] Ratsional'noe vedenie khoziaistva.  
Moskva, Sel'khozizdat, 1963. 205 p. (MIRA 16:4)

1. Ukrainskiy nauchno-issledovatel'skiy institut ekonomiki i organizatsii sel'skogo khozyaystva (for Babskiy, Borovskiy, Vitkovskiy, Zimovets, Seredenko, Pitul'ko, Chepurinov).
  2. Vinitskaya gosudarstvennaya sel'skokhozyaystvennaya opyt-naya stantsiya (for Blazhevskiy, Yaropud).
  3. Ukrainskiy nauchno-issledovatel'skiy institut zemledeliya (for Rybak).
  4. Sekretar' partiynoy organizatsii kolkhoza imeni XXII s"yezda Kommunisticheskoy partii Sovetskogo Soyuza (for Kuzik).
  5. Glavnyy agronom kolkhoza imeni XXII s"yezda Kommunisticheskoy partii Sovetskogo Soyuza (for Zadnepryanets).
- (Collective farms—Management)

KAVUN, Vasilii Mikhaylovich; SAVITSKIY, Konstantin Amosovich;  
LUK YANYUK, V.I., nauchn. red.; SHALYT, N.A., red.

[Cultivation practices for principal farm crops] Agrotekh-  
nika vazhneishikh sel'skokhoziaistvennykh kul'tur. Moskva,  
Vysshaia shkola, 1964. 234 p. (MIRA 17:9)

ALEKPEROV, V.P., inzh.; ATOVMYAN, I.O., inzh.; ZUYEV, V.I., inzh.; KAVUN, Ye.S., kand.tekhn.nauk; KOGAN, B.Ya., kand.tekhn.nauk; KOPAY-GORA, P.N., kand.tekhn.nauk; KULAKOV, A.A., inzh.; LEBEDEV, A.N., kand.tekhn.nauk; PAPERNOV, A.A., doktor tekhn.nauk; PEL'POR, D.S., doktor tekhn.nauk; PLOTNIKOV, V.N., kand.tekhn.nauk; RUZSKIY, Yu.Ye., kand.tekhn.nauk; SOLODOVNIKOV, V.V., doktor tekhn.nauk; TOPCHYEYEV, Yu.I., kand.tekhn.nauk; ULANOV, G.M., kand.tekhn.nauk; SHRAMKO, L.S., kand.tekhn.nauk; DOBROGURSKIY, S.O., doktor tekhn.nauk, retsenzent; KAZAKOV, V.A., kand.tekhn.nauk, retsenzent; PETROV, V.V., kand.tekhn.nauk, retsenzent; KHAVKIN, G.A., inzh., retsenzent; SOLODOVNIKOV, V.V., prof., doktor tekhn.nauk, red.; VITENBERG, I.M., kand.tekhn.nauk, nauchnyy red.; MOLDAVER, A.I., kand.tekhn.nauk, nauchnyy red.; KHETAGUROV, Ya.A., kand.tekhn.nauk, nauchnyy red.; POLYAKOV, G.F., red.izd-va; KONOVALOV, G.M., red.izd-va; SOKOLOVA, T.F., tekhn.red.

[Fundamentals of automatic control] Osnovy avtomaticheskogo regulirovaniya. Vol.2. [Elements of automatic control systems] Elementy sistem avtomaticheskogo regulirovaniya. Pt 2. [Compensating elements and computer components] Korrektiruyushchie elementy i elementy vychislitel'nykh mashin. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry. 1959. 453 p. (MIRA 12:4)  
 (Automatic control) (Electronic apparatus and appliances)  
 (Electronic calculating machines)

zom uchiishche. Kafedry "Atomistika i telemekhanika."

Moscow. Vysshyye tekhnicheskoye uchilishche. Kafedra "Automatika i telemekhanika".  
Kafedra avtomatizatsii regulirovaniya i upravleniya i kontrolnykh sistem; Nauchno-issledovatel'skiy tsentr Tekhnicheskoye Modelirovaniye i Upravleniye; Problemy v Teoriyu Tekhnicheskoye Modelirovaniya i Upravleniya. Seriya: Tekhnicheskoye Modelirovaniye i Upravleniya. Moscow, 1979. 166 p. (Series: *Tekhnicheskoye Modelirovaniye i Upravleniya*. No. 97). 7,600 copies printed.

22. V. L. Titov, Candidate of Technical Sciences; Tech. Ed.: Z. I. Chernov; Issuing Ed. for Literature on Machine Building and Instrument-Making (Mashgiz): I. V. Zubovskiy, Engineer.

**purpose:** The book is intended for teachers in schools of higher education, and for engineers and technicians engaged in problems of automation.

**COMMENT:** This collection contains articles on the theory and techniques of automatic regulation and control. The problems discussed concern calculation of optimum parameters of low-power servomechanisms, correction of  $n$ - $\omega$  systems and systems of automatic regulation with a delay link, and the construction of self-adjusting  $n$ - $\omega$  systems. Several methods of improving the dynamic properties of servomechanisms, and methods of approximate investigation of pulse servomechanisms, are also explained. Some considerations regarding possible ways of attaining better welding in a random direction are presented. The authors of this collection are all instructors in the Department of Automatic Control at MITU Jussuf Samir. The articles are written in Arabic. Some results were submitted by the authors to the 1977 Symposium on the last five years. Some of the results are mentioned in each article. References are given after each article.

recommended the use of a two-channel control system for the drive (along the control and excitation windings).

**Author, Ye. A. Candidate of Technical Sciences. Correcting Devices of AC-  
Reception**

The author investigates electromechanical correcting devices with  
In practical operation are insensitive to changes in carrier frequency,  
do not require additional demodulators and modulators, and provide  
the necessary stabilizing effect.

## Technology

**Author:** Yefim, Candidate of Technical Sciences. Design and Construction of an Electromechanical Correcting Device  
The author outlines the sequence of calculations, discusses the selection of the basic components of the correcting device and describes their construction.

**Author's Address:** Candidate of Technical Sciences, Designing Single-Channel Amplifiers

This article presents a further development of the methods of calculating parameters of magnetic amplifiers containing an external feedback and a bias circuit which were suggested in the two articles given as references. The author presents a practical method of designing a magnetic amplifier with a feedback loop based on an external feedback assembled from three-red and vertical cores.

**Appendix**

Smith, Ph.D., *Graduate of Technical Sciences, National Selection of the USSR Academy of Sciences*.  
The author demonstrates that measuring bridge parameters with the resistance of the data unit of a Wheatstone measuring bridge system is relative and not an absolute power maximum in the measuring device. By this he also shows that K. E. Zerkovskiy's conclusion (Zh.Fiz., on the inconsistency of the measurements of the resistance of the data unit of a Wheatstone bridge with an electric circuit).

to any scientific article.

Yu. I. Kuznetsov, Candidate of Technical Sciences, Contact Division of  
Physics, Tsim., Candidate of Technical Sciences, Contact Division of  
Automatic Systems

According to the author, the object of this article is the systematized  
presentation of all information vital for correct selection of  
the instrumentation for its operating conditions.  
The author is indebted to the editor of this collection, this particular article  
may be of use to specialists of higher education. There  
are 9 tables of specifications.

### Subfactors

**Wor, E.B., Engineer.** Automation of Butt Welding in Russian Direction. The author reports on recent developments in the automation of welding processes which attempt to increase the productivity and economy of these processes, with simultaneous improvement of the quality of the welded seams. A number of existing methods of controlling the position of the welding torch and the position of the welding machine are presented. Some alternative designs of automatic welding machines based on the use of servo-

KAVUN, Ye.S., kand.tekhn.nauk

Calculation and design of an electromechanical corrective device.  
[Trudy] MVTU no.97:68-84 '59. (MIRA 13:5)  
(Servomechanisms)

KAVUN, Ye.S.; DMITRIYEV, A.N.; KON'KOV, V.G.; SEMENOV, V.V.; YAKOVLEV,  
A.V.

Digital tracking systems using ferrite and transistor cells.  
Avtom. upr. i vych. tekhn. no.5:231-294 '62. (MIRA 15:9)  
(Automatic control) (Electronic calculating machines)

7  
 / Catalytic transformation of alcohols into hydrocarbons of  
 divinyl series. XIX. 1,3-Hexadiene in products of trans-  
 formation of mixtures of ethyl and butyl alcohols. Yu. A. CH  
 Gorn, N. G. Belen'kaya, V. S. Ivanov, and A. P. Kavun-  
 tsev. State Univ., Leningrad. Zhur. Obshch. Khim. 28,  
 1955, pt. 4, 41, 2889, 50, 1654. - Passage of  
 1:1 and 1:2 mists. of EtOH and BuOH at 380° over the  
 Lebedev catalyst (1:1, 28, 3050°) gave 2,4-hexadiene and  
 1,3-hexadiene in a 5:1 ratio. The latter was identified  
 phys. constants, its tetrabromide and by hydrogenation. The  
 conjugate it was proved by formation of polymers. Reaction  
 with SO<sub>2</sub> and formation of adducts with maleic anhydride  
 and naphthoquinone. The presence of 1,3-isomer is shown  
 by the formation of C<sub>12</sub>H<sub>14</sub> hydrocarbons among the prod-  
 ucts of the butadiene process discussed by Lebedev.

А 116 000 1-10/11/11  
YERUSALIMSKIY, B.L.; DOLGOPLOSK, B.A.; KAVUNENKO, A.P.

Reactions of free radicals in solutions. Part 9: Dimethyldiphenyl-  
tetrazene and tetramethyltetrazene as a source of free radicals  
with a nitrogen-atom reaction center. Zhur. ob. khim. 27 no.1:267-  
270 Ja. '57. (MIRA 10:6)

1. Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR.  
(Tetrazene)

KAVUNENKO, A.P.

PLATE I BOOK EXTRACT 807/995

International symposium on macromolecular chemistry. Moscow, 1960.  
Nashchurnykh symposium 90 macromolecular chemistry. Moscow, 1960.  
1960 4) doklady i referaty. Sbornik II. (International Symposium on Macromolecular Chemistry Held in Moscow, June 19-25, 1960) 559 p. 5,500 copies printed.  
Section II. [Moscow, Izd-vo AN SSSR, 1960]  
Sponsoring Agency: The International Union of Pure and Applied Chemistry, Commission on Macromolecular Chemistry  
Tech. Ed.: T.A. Prusakov.

PURPOSE: This book is intended for chemists interested in polymerization reactions and the synthesis of high-molecular compounds.  
COVERAGE: This is Section II of a multivolume work containing papers on macromolecular chemistry. The papers in this volume treat mainly the kinetics of various polymerization reactions initiated by different catalysts or induced by radiation. Among the research techniques discussed are electron paramagnetic resonance spectroscopy and light-scattering interpolation. There are summaries in English, French and Russian. No personalities are mentioned. References follow each article.

Kinell, R., and J. Horrocks. (Rumania). On the Mechanism of the Formation Reaction of Stereoregular Polymers	302
Sims, A.J., and G. Olynes (Hungary). On the Kinetics of a Reaction on Zeolite Catalysts	310
Richard, G., M. Marik, and I. Teflonal (Czechoslovakia). Kinetics of the Polymerization of Isobutylene on a Heterogeneous Catalyst	322
Bolek, V. (Czechoslovakia). Heterogeneous Catalysts for the Polymerization of Alpha Olefins	330
Vesely, K., L. Anand, R. Vilis, and O. Hmitz (Czechoslovakia). The Effect of Heavy Type Addition on the Polymerization of Propylene. Catalyzed by the System Triphenylmethyl-triethylaluminum	337
Polopolski, R.A. (USSR). Study of the Factors Leading to the Degradation of Chain Structure During the Ionic Polymerization of Dienes	346
Yermolov, B.L., Vag Tsung, and A.P. Kuznetsov (USSR). Study of the Interaction of Organometallic Compounds With Salts of Heavy Metals and the Use of Organometallic Compounds and Their Complexes to Stimulate Polymerization	355
Saito, I., and K. Oai (Hungary). The Effect of Organic Inner Complexes of Heavy Metals of Variable Valence on the Kinetics of the Polymerization of Vinyl Compounds	366
Reuter, S.Y., M.J. Kozlitskiy, L. Ye. Polubnyy, and Shih Kung-i (USSR). Study of Some Details of the Mechanism of Polymerization Under the Action of Complex Catalysts	372
Tsvetkov, V.M., G.N. Marich, R.F. Kozlov, and M.G. Oumov (USSR). Stereospecificity and the Optical Properties of Polymers	378
Shirshov, S.M., Yu. Ye. Gellid, and O.B. Prizina (USSR). The Effectiveness of Polymers and Methods of Study	388
Abin, A.B., A.P. Shermak, M.A. Yakovlev, and L.P. Kishchuk (USSR). On Carbonium and Carbanion Polymerization Mechanisms Under the Effects of Gamma Radiation	390
Chern, Y.A., and V.A. Kobakov (USSR). Polymerization Processes in Insoluble Molecular Dispersions	395
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Yee, Y., K. (Czechoslovakia). On the Mechanism of Ionic Polymerization	405
Klusal, Z., and A. Kozda (Czechoslovakia). On the Role of Nonpolar Compounds in the Cationic Polymerization of Isobutylene	410

45

S/062/60/000/009/014/021  
B023/B064

AUTHORS: Yerusalimskiy, B. L., ~~Kayunenko, A. P.~~, and Dolgoplosk, B.A.

TITLE: Reactions of the Free Radicals in Solutions. Communication  
17. Effect of the Viscosity of the Medium on the Primary  
Recombination of Free Radicals

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh  
nauk, 1960, No. 9, pp. 1672-1674

TEXT: The authors investigated in how far the methane- and methyl aniline yields depend on the molecular weight and concentration of the polymer in the case of thermal splitting of methyl-phenyl triazene in the cumene - polystyrene system. As is shown by a previous paper of the authors (Ref.2), in solutions with 60% polystyrene (molecular weight 5000 to 200,000), the reaction leads to a reduction of the methane yield as compared to the data obtained from the use of a pure solvent. The methyl aniline yield remains, however, the same as that obtained in the absence of the polymer. Only in the solution of polystyrene with a molecular weight of 600,000, and a polymer concentration of 60%, the methyl aniline yield increases, while the

Card 1/3

Reactions of the Free Radicals in Solutions.  
Communication 17. Effect of the Viscosity of  
the Medium on the Primary Recombination of  
Free Radicals

S/062/60/000/009/014/021  
B023/B064

methane yield decreases considerably (Table 1). Consequently, the change of yields in methane solutions, containing polystyrene with a molecular weight of up to 200,000, cannot be considered as a result of the increase in viscosity of the medium. This would have certainly led to a higher yield of the product of methyl aniline primary recombination. The reduction of the yield is more likely to be due to the difference between the relative activity of polystyrene and that of cumene than to hydrogen donors. This is in agreement with published data, according to which the H atoms in polystyrene are less mobile than in cumene (Ref. 3). The authors proved that also in systems containing considerably lower polystyrene concentrations, the methane yield is reduced. The amount of the yield depends, as is shown in Table 2, on the concentration only. The molecular weight of the polymer has no effect upon the amount of the yield. In systems with a high viscosity, the importance of the primary recombination of free radicals increases. This becomes obvious by the fact that the methyl aniline yield increases, while the methane yield decreases at the same time. There are 2 tables and 5 references:

Card 2/3

S/190/62/004/009/005/014  
B101/B144

AUTHORS: Dolgoplosk, B. A., Yerusalskiy, B. L., Kavunenko, A. P.,  
Merkur'yeva, A. V.

TITLE: Polymerization of diene hydrocarbons under the action of  
organomagnesium compounds

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 9, 1962, 1333-1337

TEXT: The polymerization of butadiene (I), 2,3-dimethyl butadiene (II), and chloroprene (III) by the system  $(C_4H_9)_2Mg - C_4H_9MgI$  was studied under the same conditions as that of isoprene described previously (Vysokomolek. soyed., 2, 541, 1960). Results: (1) A solution of 25 - 30 mole% I in hexane yielded ~10% polymer with 77 - 75% 1,4 bonds at 100°C. Under the same conditions, II yielded ~40% polymer with 97% 1,4 bonds. The polymerization proceeds more slowly than that of isoprene. The polymers are completely soluble in benzene and have lost ~6-8% of their double bonds. It is assumed, therefore, that an intramolecular cyclization occurs. (2) The polymerization of III in hexane at 40 - 60°C yielded up to 20% polymer. The polymers had limited solubility in benzene, and their glass transition  
Card 1/2

✓

Polymerization of diene...

S/190/62/004/009/005/014  
B101/B144

point was -46 to -49°C. (3) The consumption of organomagnesium initiators during the polymerization of isoprene was studied. The content in  $C_4H_{10}$  liberated by  $H_2SO_4$  was determined chromatographically. The continuous decrease in initiator concentration and the continuous increase in molecular weight during the reaction suggest a consecutive organometal synthesis. Monomer addition to the C-Mg bond is comparatively slow. There are 1 figure and 4 tables.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy AN SSSR (Institute of High-molecular Compounds AS USSR)

SUBMITTED: May 20, 1961

Card 2/2

DOLGOPOLOSK, B.A.; YERUSALIMSKIY, B.L.; KAVUNENKO, A.P.; MERKUR'YEVA, A.V.

Polymerization of diene hydrocarbons under the influence of  
organomagnesium compounds. Vysokom.socd. 4 no.9:1333-1337  
S '62. (MIRA 15:11)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.  
(Butadiene) (Polymerization)  
(Magnesium organic compounds)

KAVUNENKO, I.A.

Lymphatic vessels of the caecum and vermiform appendix in man.  
Dop. AN URSR no.4:537-540 '64. (MIRA 17:5)

1. Kiyevskiy meditsinskiy institut. Predstavleno akademikom AN  
UkrSSR V.G. Kas'yanenko [Kas'ianenko, V.H.].

FRUSS, V., inzh.; KAVUNENKO, Ye., inzh.

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